

BAM-1020 Audit Sheet

Model: **BAM-1020**

Serial Number: **T21292**

Audit Date: **10/3/17**

Audited By: **M. Potter**

Flow Audits

| | | | |
|------------------------------------|----------------------------|--------------------------|----------------------------------|
| Flow Reference Standard Used: | Model: B61 DeltaCal | Serial No: 146294 | Calibration Date: 9/26/17 |
| Temperature Standard Used: | Model: | Serial No: | Calibration Date: |
| Barometric Pressure Standard Used: | Model: " | Serial No: " | Calibration Date: " |

Leak Check Value: as found: **0.9** lpm as left: **0.5** lpm

| | | | | | | | | | |
|--------------------------------|-----------|-----------------|-----------|------------------|----------|-----------------|-----------|-----------------|------------------------------|
| Ambient Temperature: | as found: | 26.7 C | Ref. Std. | 25.3 C | as left: | 26.2 C | Ref. Std. | 26.2 C | N/A <input type="checkbox"/> |
| Barometric Pressure: | as found: | 755 mmHg | Ref. Std. | 755 mmHg | as left: | 754 mmHg | Ref. Std. | 754 mmHg | N/A <input type="checkbox"/> |
| Flow Rate (Actual Volumetric): | as found: | 16.7 lpm | Ref. Std. | 16.96 lpm | as left: | 16.7 lpm | Ref. Std. | 16.7 lpm | N/A <input type="checkbox"/> |
| Flow Rate (EPA Standard): | as found: | | Ref. Std. | | as left: | | Ref. Std. | | N/A <input type="checkbox"/> |

Mechanical Audits

| | | | | | | | | | | |
|--------------------------------|----------|-------------------------------------|---------|-------------------------------------|----------------------------------|----------|-------------------------------------|---------|-------------------------------------|---|
| Pump muffler unclogged: | as found | <input type="checkbox"/> | as left | <input checked="" type="checkbox"/> | PM10 particle trap clean: | as found | <input type="checkbox"/> | as left | <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| Sample nozzle clean: | as found | <input type="checkbox"/> | as left | <input checked="" type="checkbox"/> | PM10 drip jar empty: | as found | <input type="checkbox"/> | as left | <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| Tape support vane clean: | as found | <input type="checkbox"/> | as left | <input checked="" type="checkbox"/> | PM10 bug screen clear: | as found | <input type="checkbox"/> | as left | <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| Capstan shaft clean: | as found | <input type="checkbox"/> | as left | <input checked="" type="checkbox"/> | PM2.5 particle trap clean: | as found | <input type="checkbox"/> | as left | <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| Rubber pinch rollers clean: | as found | <input type="checkbox"/> | as left | <input checked="" type="checkbox"/> | Inlet tube water-tight seal OK: | as found | <input checked="" type="checkbox"/> | as left | <input type="checkbox"/> | |
| Chassis ground wire installed: | as found | <input checked="" type="checkbox"/> | as left | <input type="checkbox"/> | Inlet tube perpendicular to BAM: | as found | <input checked="" type="checkbox"/> | as left | <input type="checkbox"/> | |

Analog Voltage Output Audit

N/A ☐

| DAC Test Screen | BAM Voltage Output | Logger Voltage Input |
|-----------------|--------------------|----------------------|
| 0.000 Volts | Volts | Volts |
| 0.500 Volts | Volts | Volts |
| 1.000 Volts | Volts | Volts |

Membrane Audit

| | |
|------------------|--|
| LAST m (mg): | |
| ABS (mg): | |
| Difference (mg): | |
| % Difference: | |

Flow Control Range

| Flow Setpoint | BAM Flow |
|---------------|-------------|
| 15.0 LPM | 15.0 |
| 16.7 LPM | 16.7 |
| 18.4 LPM | 18.4 |

Setup and Calibration Values

| Parameter | Expected | Found | Parameter | Expected | Found | Parameter | Expected | Found |
|-----------------|-----------------|-----------------|-----------|----------|-------|------------------|----------|-------|
| Clock Time/Date | 13:05:10 | 13:05:10 | FLOW TYPE | | | AP | | |
| RS232 baud | | | Cv | | | FRI | | |
| STATION # | | | Qo | | | FRh | | |
| RANGE | | | ABS | | | Password | | |
| BAM SAMPLE | | | μ SW | | | Cycle Mode | | |
| MET SAMPLE | | | K Factor | | | RH Control | | |
| OFFSET | | | BKGD | | | RH Setpoint | | |
| CONC UNITS | | | STD TEMP | | | Datalog RH | | |
| COUNT TIME | | | HEATER | | | Delta-T Control | | |
| FLOW RATE | | | e1 | | | Delta-T Setpoint | | |
| CONC TYPE | | | Errors | | | Datalog Delta-T | | |

Last 6 Errors in BAM-1020 Error Log

| Error | Date | Time | Error | Date | Time |
|---------------|------|-------|---------------|------|------|
| 1 Maintenance | 10/3 | 12:01 | 4 Maintenance | 9/4 | 9:32 |
| 2 Power fail | 9/21 | 10:15 | 5 Maintenance | 8/2 | 8:45 |
| 3 Maintenance | 9/10 | 9:38 | 6 Maintenance | 8/2 | 8:30 |

Audit Notes: **Completed Flow Calibration + Temp + BP system on arrival**
Completed 19pc test x3 pass
Weather data download - Weather clock 1 min slower than BTRK Reset
BA 01 data download.